

Hole Number: ES07-127

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -60.00
Project Number: 201	North: 6801229.00	North: 61.34	Collar Az: 230.00
Location: Stormyra	East: 535447.00	East: 9.66	Length: 188.81 (m)
	Elev: 953.00	Elev: 953.00	Start Depth: 0.00 (m)
Date Started: Nov 19, 2007	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed:	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: awnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 188.81 (m)

Comments: Target: Test down dip of plate, in fill drilling on 11650E and in between ES07-126 and ES06-53
Result: Did not hit any mineralization.

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	21.00	O/B, Overburden O/B, Overburden this was a very tough hole for overburden, since the drillers noticed they had old casing pipes - then the ordered new ones didn't arrive so the dayshift drove to trondheim to pick them up. nightshift drilled one third of a drill pipe out of the hole that kjetil must have lost the day before... finally they made it through though.							
21.00	26.35	ANOR, Anorthosite ANOR, Anorthosite very quartz rich (45%), white, with a little bit (15%) of chlorite in it, and 40% Plagioclase containing Anorthosite. Quartz seems to appear mostly mottled or as bands of varying thickness. At 23.15m there is a 85cm mafic dyke with the upper contact at 90CA and the lower contact at 75CA. At 24.4m there is a 30cm mafic dyke with the upper contact at 20CA and the lower contact at 85CA. Structure 21.40 - 21.70 : FLT Fault, 45 Deg to CA lots of broken pieces (1-5cm) along fractures at 45CA 22.40 - 22.40 : Frct Fracture, 25 Deg to CA 22.60 - 22.70 : F Fractured, 50 Deg to CA two fractures opposite each other 23.15 - 23.15 : Frct Fracture, 40 Deg to CA fracture right before contact with dyke, even though the contact is at 90CA 24.05 - 24.20 : FLT Fault, 45 Deg to CA lots of broken small (0.5-2cm) pieces along fractures 24.40 - 24.50 : FLT Fault, 20 Deg to CA contact to dyke is faulted 24.70 - 24.70 : Frct Fracture, 45 Deg to CA fracture in ANOR right below the conact 25.60 - 25.75 : F Fractured, 20 Deg to CA 15cm fracture zone							

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26.35	42.45	<p>MD, Mafic Dike MD, Mafic Dyke Upper contact at 75CA. Fine grained, medium green mafic dyke with 75% fine grained Pyroxene, 20% fine grained Plagioclase and 5% interstitial Epidote. 32.4-34.6m there is a 2.2m Anorthosite (lower contact of mafic dyke is at 70CA). Contact to the mafic dyke at 34.6m is at 90CA. Lower contact is at 85CA.</p> <p>Structure 36.20 - 36.35 15cm fault zone with some 1-3cm pieces of rock 37.00 - 37.00 : Frct Fracture, 50 Deg to CA 39.00 - 39.05 : F Fractured, 45 Deg to CA multiple fractures at 45CA 39.20 - 39.50 fault zone along multiple fractures at 50CA 40.30 - 40.40 fault zone along multiple fractures at 50CA</p>							
42.45	90.80	<p>ANOR, Anorthosite ANOR, Anorthosite White, grey, green, purple mostly brecciated - in parts mottled - looking Anorthosite with 60% Plagioclase, 20% Quartz, 15% Chlorite, Epidote, Hematite/Ankerite? Down to 54.72m this Anorthosite has two to three mini mafic dykes (2-3cm) with 1% veiny Pyrite in them. 54.72-90.80 there are six mafic dykes: 10cm at 64.15m, upper and lower contact at 75CA 60cm at 65.6m, upper and lower contact at 85CA 45cm at 66.8m, upper and lower contact at 85CA 20cm at 75.3m, upper and lower contact at 80CA 40cm at 85.1m, upper contact at 85CA, lower contact at 50CA 20cm at 85.7m, upper contact at 45CA, lower contact at 50CA All the mafic dykes seem to be quite broken - softer material?! 54.72-90.8m the Anorthosite is brecciated to mottled to lensoid banded, some stretches have lots of Epidote (80.4-81.0m).</p> <p>Structure 52.60 - 52.85 : F Fractured, 75 Deg to CA 25cm of multiple fracture zone 56.60 - 56.90 30cm fault zone with quite some broken pieces along fractures 60.08 - 60.20 : F Fractured, 25 Deg to CA multiple fractures at 25CA 60.50 - 60.60 : F Fractured, 45 Deg to CA multiple fractures at 45CA 81.00 - 81.00 : Frct Fracture, 25 Deg to CA</p>							

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90.80	96.20	MD, Mafic Dike MD, Mafic Dyke Medium green fine grained mafic dyke with 75% Pyroxene and 25% Plagioclase. There is a 50cm stretch at 93.8m that is more rusty looking and a bit more broken. Also there is a 30cm band of Anorthosite at 92.5m. Upper contact at 90.8m is 50CA. Lower contact is at 75CA. Structure 94.10 - 94.40 multiple fractures at 30-45CA							
96.20	155.80	ANOR, Anorthosite ANOR, Anorthosite White, grey, green purple looking Anorthosite with about 70% Plagioclase, 15% (rose) Quartz, and 15% Epidote, Chlorite, Ankerite/Hematite? The texture varies very much from more brecciated, mottled looking down to 120.3m, to more lensoid banded looking down to 155.8m There are 10-90cm mafic dykes throughout - but not mineralized. Overall the core appears to be quite fractured in places: 99.75-99.8m mafic dyke quite broken 101-101.4m multiple fractures at 45CA. 104.2-104.4m mafic dyke quite broken 110.6m fracture at 40CA 113.2-115.9 lots of fractures at 30-45CA 115.9-116.2 only rock pieces 3-5cm 136.4-136.7 multiple fractures at 50CA. 142.2-142.7m multiple fractures at 50CA 152.5-152.7m multiple fractures at 45-50CA 155.1-155.2m quite fractured at 45CA. Other than that, generally the mafic dykes are quite broken - softer material?! Structure 96.20 - 155.80 multiple fractures throughout. see comments							
155.80	159.30	MD, Mafic Dike MD, Mafic Dyke Medium green, fine grained mafic dyke with 80% Pyroxene and 20% Plagioclase, both fine grained. Two minor fractures at 157.6m at 40CA and at 158.8m at 45CA. Upper and lower contacts at 85-90CA.							

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159.30	188.80	ANOR, Anorthosite ANOR, Anorthosite White, green Anorthosite with about 75% Plagioclase, 10% Quartz and 15% Chlorite. Texture is mostly lensoid banded looking to brecciated in places. There are a few 10-60cm mafic and ultramafic dykes in this section (down to 169.63m) - not mineralized. 169.3-188.8m six 10-100cm mafic dykes - not mineralized. Structures: 161.4-161.5m multiple fractures at 45-50CA. 167.0-167.3m multiple fractures along 5-15CA. 180.7-181.0m multiple fractures at 0-15CA. 181.6-182.1 only rock pieces 1-4cm of mafic dyke - strongly fractured along 0-15CA and also along 80CA. 186.8-187.0m there is a 10cm long fracture along 20CA. Structure 159.30 - 188.80 multiple fractures, see comments							
188.80	188.81	EOH, End of Hole							